PCT/DO/EO Routing Sheet
APPLICATION
<u>10538038</u>
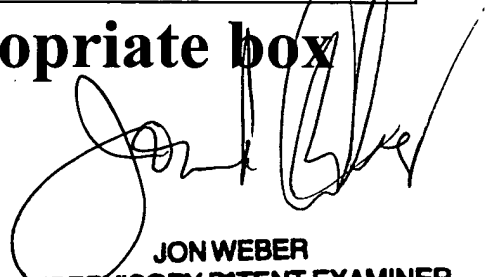# TO BE DELIVERED TO:
PCT / DO / EO

LOCA 5610

Sequence Rule Compliance Review Item

	CRF, paper copy of sequence listing, and statement that both are same missing
x	CRF contains error(s) according to STIC Report
	CRF damaged or unreadable according to STIC Report
	CRF transferred from prior application is not compliant

Place an "X" in the appropriate box

JON WEBER
SUPERVISORY PATENT EXAMINER

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/538,038_

Source: _PG/10_

Date Processed by STIC: _6/16/05_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _10/538,038_ ////

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 ____ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino
Numbering
The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length
Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences
(OLD RULES)
Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences
(NEW RULES)
Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ____ Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n/Xaa
"n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

PCT

RAW SEQUENCE LISTING   DATE: 06/16/2005
PATENT APPLICATION: US/10/538,038   TIME: 10:24:46

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\06162005\J538038.raw

IMPORTANT:
see item 4 on
Erro Summary sheet

```
     3 <110> APPLICANT: Givaudan SA
     5 <120> TITLE OF INVENTION: G-Proteins
     7 <130> FILE REFERENCE: 30069P1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/538,038
C--> 9 <141> CURRENT FILING DATE: 2005-06-08
     9 <160> NUMBER OF SEQ ID NOS: 2
    11 <170> SOFTWARE: PatentIn version 3.1
```

pp 1-2

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

delete
numbers under codons.

Use numbers under every 5.

```
    13 <210> SEQ ID NO: 1
    14 <211> LENGTH: 1122
    15 <212> TYPE: DNA
    16 <213> ORGANISM: Homo sapiens
    18 <220> FEATURE:
    19 <221> NAME/KEY: CDS
    20 <222> LOCATION: (1)..(1122)
    21 <223> OTHER INFORMATION:
W-->23 <400> 1
```

amino acids.

```
    24 atg gcc cgc tcg ctg acc tgg cgc tgc tgc ccc tgg tgc ctg acg gag     48
E-->26   1             5                10                15
    28 gat gag aag gcc gcc gcc cgg gtg gac cag gag atc aac agg atc ctc     96
E-->30           20                25                30
    32 ttg gag cag aag aag cag gac cgc ggg gag ctg aag ctg ctt ttg        144
E-->34       35                40                45
    36 ggc cca ggc gag agc ggg aag agc acc ttc atc aag cag atg cgg atc    192
E-->38       50                55                60
    40 atc cac ggc gcc ggc tac tcg gag gag gag cgc aag ggc ttc cgg ccc    240
E-->42   65                70                75                80
    44 ctg gtc tac cag aac atc ttc gtg tcc atg cgg gcc atg atc gag gcc    288
E-->46           85                90                95
    48 atg gag cgg ctg cag att cca ttc agc agg ccc gag agc aag cac cac    336
E-->50           100               105               110
    52 gct agc ctg gtc atg agc cag gac ccc tat aaa gtg acc acg ttt gag    384
E-->54       115               120               125
    56 aag cgc tac gct gcg gcc atg cag tgg ctg tgg agg gat gcc ggc atc    432
E-->58       130               135               140
    60 cgg gcc tgc tat gag cgt cgg cgg gaa ttc cac ctg ctc gat tca gcc    480
E-->62   145             150               155               160
    64 gtg tac tac ctg tcc cac ctg gag cgc atc acc gag gag ggc tac gtc    528
E-->66           165               170               175
    68 ccc aca gct cag gac gtg ctc cgc agc cgc atg ccc acc act ggc atc    576
```

No amino acids are shown in this sequence.

RAW SEQUENCE LISTING   DATE: 06/16/2005
PATENT APPLICATION: US/10/538,038   TIME: 10:24:46

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\06162005\J538038.raw

```
E--> 70           180            185            190
     72 aac gag tac tgc ttc tcc gtg cag aaa acc aac ctg cgg atc gtg gac    624
E--> 74           195            200            205
     76 gtc ggg ggc cag aag tca gag cgt aag aaa tgg atc cat tgt ttc gag    672
E--> 78           210            215            220
     80 aac gtg atc gcc ctc atc tac ctg gcc tca ctg agt gaa tac gac cag    720
E--> 82 225            230            235            240
     84 tgc ctg gag gag aac aac cag gag aac cgc atg aag gag agc ctc gca    768
E--> 86           245            250            255
     88 ttg ttt ggg act atc ctg gaa cta ccc tgg ttc aaa agc aca tcc gtc    816
E--> 90           260            265            270
     94 atc ctc ttt ctc aac aaa acc gac atc ctg gag gag aaa atc ccc acc    864
E--> 96           275            280            285
     98 tcc cac ctg gct acc tat ttc ccc agt ttc cag ggc cct aag cag gat    912
E--> 100          290            295            300
    102 gct gag gca gcc aag agg ttc atc ctg gac atg tac acg agg atg tac    960
E--> 104 305            310            315            320
    106 acc ggg tgc gtg gac ggc ccc gag ggc agc aac tta aaa aaa gaa gat   1008
E--> 108          325            330            335
    110 aag gaa atc tat tct cac atg acc tgc gct act gac aca caa aac gtc   1056
E--> 112          340            345            350
    114 aaa ttc gtg ttt gat gcc gtg aca gat ata ata ata aaa gag aac ctc   1104
E--> 116          355            360            365
    118 aaa gac tgt ggg ctc ttc                                           1122
E--> 120          370
```

VERIFICATION SUMMARY   DATE: 06/16/2005
PATENT APPLICATION: US/10/538,038   TIME: 10:24:47

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\06162005\J538038.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:23 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:21
L:26 M:254 E: No. of Bases conflict, this line has no nucleotides.
M:254 Repeated in SeqNo=1